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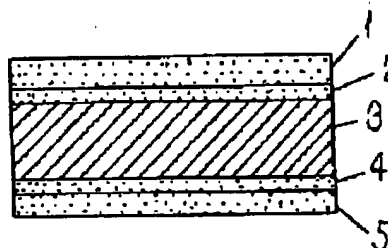
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TITLE : MANUFACTURE OF ALKALINE
BATTERY AND NEGATIVE
ELECTRODE VESSEL



ABSTRACT : PURPOSE: To provide a thin-walled negative electrode vessel free from gas generation by using the negative electrode vessel where plated triple layer metal forms a stainless steel/nickel diffused layer and a stainless steel/copper diffused layer.

CONSTITUTION: A stainless steel strip 3 is used as an original plate, and nickel plating 1 is applied to one side thereof. Also, copper plating 5 is applied to the other side. Then, the plate is annealed, tempered and rolled at temperature approximately between 700 and 800°C for one to two minutes, and a stainless steel/nickel diffused layer 2 and a stainless steel/copper diffused layer 4 are thereby formed. In this case, the nickel and copper plated layers of thickness on the order of a few micron meters can be formed on the triple layer type of nickel.copper plated stainless steel strip 3. Thus, the strip 3 can be made thin. Also, the strip 3 after plated is annealed and the diffused layers 2 and 4 are formed to prevent the crack of the plated layer liable to occur at a pressing process. In this case, the thickness of the copper plating is preferably 3.0μm or above, and the thickness of the stainless steel/copper diffused layer is 1.0μm or above.

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